Status of Validation Data Sets *and* First Year Validation Report

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AIRS Science Team Meeting

September 2002

Status of Validation Data Sets

- *July 20-29*: ARM and ozonesondes, standard sondes, some others (e. g. CRYSTAL-FACE).
  - Many are available through the TDS at JPL
- *August*: Chesapeake Platform, Galapagos, *Explorer of the Seas,* Europeans
- *Current*: ARM, Europeans, *Explorer of the Seas*, Chesapeake Platform, GSFC, Boulder, Huntsville, Andros Island, Mauna Loa. Peter Minnett in the Northwest Passage
- *Near Future*: Add Brazilians and Australians. Ozone and water vapor measurements at ARM SGP.

See www-airs.jpl.nasa.gov for an updates

Table of overpasses will be posted to www-airs.jpl.nasa.gov

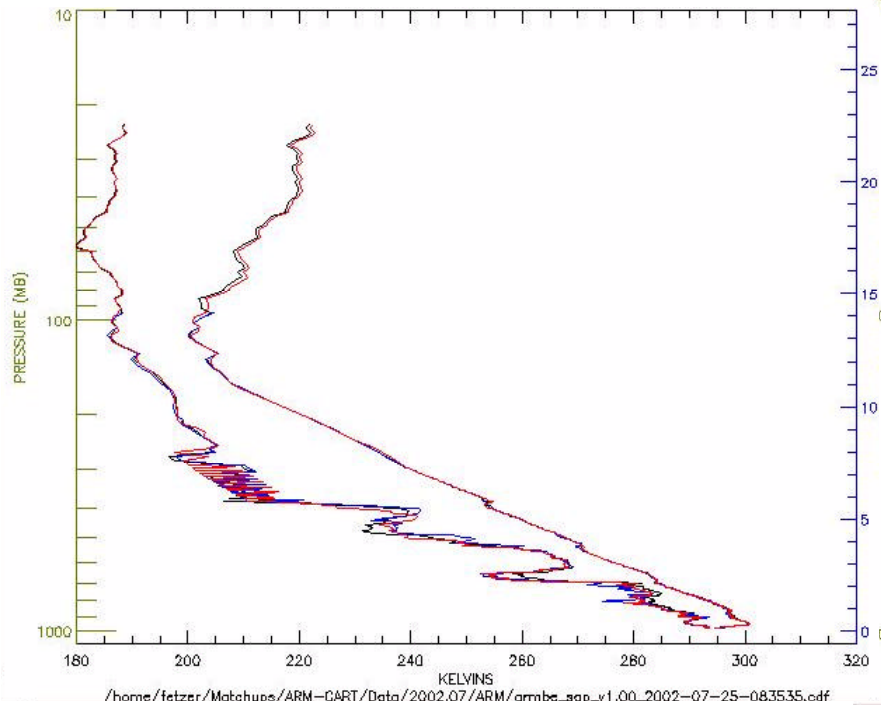
	ARM SGP	ARM TWP	ARM NSA
23-Jul	19:30 Two sondes		
24-Jul		01:00 Two sondes & 14:00 Two sondes	
25-Jul	07:50 Two sonde & 18:57 Two sondes		21:30 Two sondes
26-Jul		01:00 Two sondes & 14:00 Two sondes	21:10 Two sondes
27-Jul	07:45 Two sondes & 18:43 Two sondes		22:53 Two sondes
28-Jul			22:41 Two sondes

Sites / Investigators →

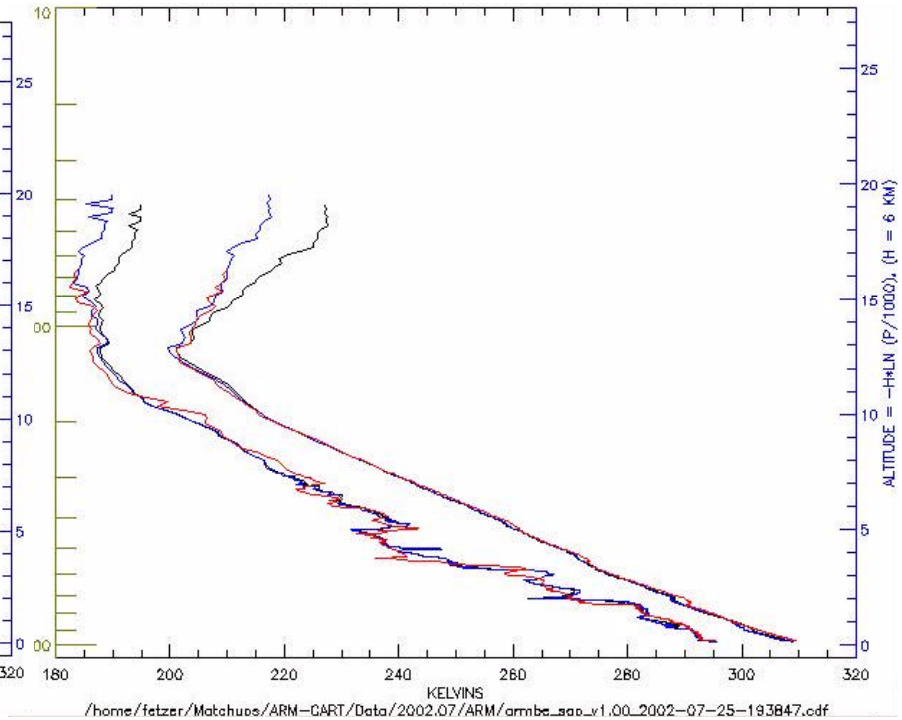
Date ↓

25 July 0830 and 1930 ARM Profiles: Warm, clear conditions on the High Plains

0830



1930



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Validation Report: An important first year deliverable

Date	Event
L+6 - 15 Nov	End dedicated observations
L+7 - 5 Dec	RTA delivery
L+8 - 14 Jan	Initial v3.0 build at TDS; reprocess Level 2 val. data sets
L+9 - 20 Feb	Public release of v2.7 Level 1B at DAAC
L+9 - TBD Feb	***Meeting, presentations on 1st year validation report***
L+10 - 15 Mar	Ship v3.0 to DAAC
L+11 - 1 Apr	***Validation report for v3.0***
L+12 - 8 May	Public release of v3.0 Level 2 at DAAC

v2.7 = Level 1B for public release; v3.0 = Level 2 for public release

Validation Report: L+11 Month Delivery and Overview

JPL

- Product-by-product reports released with V3.0 at DAAC
- Results for Core Products only
  - E. g., show 1 K / km conditionally at dedicated sites, Northern Europe
- JPL will compile results and write text
- Science Team will provide analyses as graphics and detailed notes
  - This will be a single, coherent report rather than compilation of individual contributions.

Validation Report: Sections and Responsibilities Table 4 of Val Plan

1.	Level 1B AMSU	Rosenkranz
2.	Level 1B HSB	Staelin
3.	Level 1B AIRS spectral	Strow
4.	Level 1B AIRS radiometric	Aumann, Goldberg, Kalnay
5.	Cloud-cleared infrared	Susskind
6.	Sea surface temperature	Aumann, Smith
7.	Land surface temperature, emissivity	Revercomb
8.	Temperature profiles	McMillin
9.	Water vapor profiles	McMillin
10.	Cloud properties	Chahine
11.	Cloud properties (Vis/NIR)	Gautier
12.	Vis / NIR radiances	Gautier
13.	Microwave precipitation	Staelin

Validation Report: JPL writes, you fill a template:

- Statistics of differences between core products and *in situ* observations
  - Graphics and detailed notes describing data sets, analysis by geographic region, number of matches, interpolation methods, etc., as appropriate.
- Estimated error budget in correlative data
  - Graphics and details on error source (e.g. RS80 vs. RS90), rms errors, systematic errors, etc.
- Retrieved product error budget
  - Graphics and details on NEN or retrieval noise, reference to ATBD if appropriate, etc.

Validation Report: Schedule

- *Early October*: JPL provides detailed template for analyses
- *Now through February*: Preparation of analyses
  - Most validation data sets will be acquired by 15 November
  - RTA delivery is 5 Dec
- *February 2003*: Meeting to present and discuss Science Team member contributions
  - JPL will collect differences, error budgets, supporting material, etc.
- *April 2003*: Delivery of Validation Report.